AMENDMENTS TO THE CLAIMS

Listing of Claims

The following listing of claims replaces all previous listings or versions thereof:

- 1. (Currently amended) A method for detecting endotoxin, comprising the steps:
 - a) incubating a sample with an isolated <u>p12 or p12-similar</u> bacteriophage tail protein, and
 - b) detecting endotoxin bonded to <u>said</u> bacteriophage tail <u>proteinsprotein</u>.
- (Currently amended) The method according to claim 1, further comprising after step a) and prior to step b) the additional step of:
 - a') separating <u>a</u>-bacteriophage tail protein-endotoxin eemplexes<u>complex</u> from the sample.
- (Previously presented) The method according to claim 1, wherein detection comprises spectroscopic methods.
- (Currently amended) A method for removing endotoxin from a sample, comprising the steps:
 - a) incubating a sample with or bringing a sample in contact with an isolated <u>p12 or p12-similar</u> bacteriophage tail <u>proteinsprotein</u> which areis immobilised on a permanent carrier, non-specifically or directed, in the <u>presence of bivalent ions</u>,
 - b) separating bacteriophage tail protein-endotoxin complex from the sample
 - wherein the permanent carrier comprises filtration media, glass particles, magnetic particles, agarose particles, sedimentation materials or filling materials for chromatography columns.
- (Previously presented) The method according to claim 4, wherein steps a) and b) are implemented in a chromatography column throughflow method.

- (Canceled)
- (Previously presented) The method according to claim 4, the bacteriophage tail proteins being immobilised on the permanent carrier via coupling groups.
- (Previously presented) The method according to claim 7, the coupling group being a lectin, receptor or anticalin.
- (Previously presented) The method according to claim 7, wherein the coupling group comprises streptavidin or avidin and the bacteriophage tail proteins are coupled with biotin or a Strep-tag.
- (Previously presented) The method according to claim 4, the bacteriophage tail proteins are immobilised on the permanent carrier covalently via chemical bonds.
- (Previously presented) The method according to claim 1, wherein the bacteriophage tail
 protein comprises a Strep-tag or a His-tag.
- (Currently amended) The method according to claim [[11]]1, wherein the tag comprises
 an amino acid sequence according to SEQ ID NO. 5, 6 or 7.
- (Currently amended) The method according claim [[11]]1, wherein the <u>bacteriophage tail</u> <u>protein is p12 protein of the phage T4 is used as bacteriophage tail protein and comprises a Strep-tag or a His-tag.</u>
- (Currently amended) The method according to claim 1, wherein the <u>bivalent cations are</u>
 Ca²⁺ concentration of the incubation comprises 0.1 μM to 10 mM.
 encentration comprises in the range of 0.1 μM to 10 mM.
- 15. (Currently amended) The method according to claim 1, wherein detecting comprises detecting fluorescence-marked endotoxin being displaced from the bond with thesaid bacteriophage tail protein-and-the-marked endotoxin-being subsequently detected protein of step a).

- (Currently amended) The method according to claim [[1]]4, wherein the bacteriophage tail protein comprises a Strep-tag or a His-tag.
- (Currently amended) The method according to claim [[16]]4, wherein the tag comprises an amino acid sequence according to SEQ ID NO. 5, 6 or 7.
- (Currently amended) The method according claim [[16]]4, wherein the <u>bacteriophage tail</u> <u>protein is p12 protein of the phage T4 being used as bacteriophage tail proteinand comprises a Strep-tag or His-tag.</u>